Burner Management System

Increase safety, reduce complexity

SIMATIC Burner Management Systems offer all you need to monitor, control, diagnose, and maintain the various aspects of your fuel burning equipment.

With TÜV-certified automation hardware and customizable software, the compact BMS300F and BMS151F systems comply with the required NFPA, IEC, and ANSI/ISA standards for single or multiple burner/dual-fuel applications. Furthermore, these designs are capable of meeting up to SIL-3 with the appropriate field devices.

These systems efficiently respond to critical events based on a variety of highly robust controls and sensors. These devices can also communicate with any third-party control system through PROFIBUS or PROFINET. Additionally, our state-of-the-art, integrated HMI provides the user with intelligent monitoring, intuitive navigation, and straight-forward operation. Extensive component options allow you to build a cost-effective system, catered to the needs of your application, while maintaining compliance to all BMS safety standards. Siemens BMS gives you a comprehensive burner control solution through a compact and simple design.

www.usa.siemens.com/safety
Benefits

- **Increased Safety and System Availability**
  - Intuitive Safety Software
  - Seamless Integration into Existing Application

- **Improved Operations and Maintenance**
  - HMI Display of Safety-Critical Information
  - Intelligent Diagnostics
  - Remote Access Capabilities

- **Reduced Risk and Complexity**
  - Compliance to Industry Standards
  - Flexible Design Configurations

Conformance to Industry Standards

The Siemens Burner Management solution has been designed in accordance with all of the technical requirements listed in both NFPA 85 and 86 standards for programmable logic solvers (section 4.11 of NFPA 85 and section 8.3 of NFPA 86). In addition, all critical BMS functions are managed via IEC 61508-compliant components up to SIL-3, thereby ensuring safety metrics are met. In addition, these systems are compliant with ISA S84.00.01-2004 and IEC 61511.

NFPA 85 – 2011
Boiler and Combustion Systems Hazards and Code

Applies to all single burner boilers, multiple burner boilers, stokers, and atmospheric, fluidized-bed boilers with a fuel input rating of 3.7MW (12.5 million BTU/hr) or greater.

NFPA 86 – 2011
Standard for Ovens and Furnaces

Applies to Class A, Class B, Class C, and Class D ovens; dryers and furnaces; thermal oxidizers; and any other heated enclosure used for processing of materials and related equipment. This most recent version recognizes the benefits of using certified Safety PLCs for burner management logic.

BMS Solutions

- **Pre-packaged Solution**
  - Built to fit the needs of your application
  - Includes panel, relevant hardware, and pre-engineered start-up software
  - Available through recommended Siemens Partners

- **BMS-À La Carte**
  - Purchase BMS components separately
  - Integrate the BMS through your in-house engineering group
  - Customized engineering available through recommended Siemens Partners

- **Pre-configured Solution (BMS400F)**
  - Consistent design available in three panel sizes
  - Customized engineering available
  - Go to www.usa.siemens.com/bms for further information